


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Moon Bottom 9-7				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR ROBERT L BAYLESS PRODUCER, LLC						7. OPERATOR PHONE 505 564-7802				
8. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM, 87499						9. OPERATOR E-MAIL kmccord@rlbayless.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU003505			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1696 FNL 1471 FEL		NWSE	9	10.0 S	19.0 E	S		
Top of Uppermost Producing Zone		1674 FNL 1555 FEL		NENW	9	10.0 S	19.0 E	S		
At Total Depth		1313 FNL 2020 FWL		NENW	9	10.0 S	19.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1471			23. NUMBER OF ACRES IN DRILLING UNIT 1057				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0			26. PROPOSED DEPTH MD: 5147 TVD: 4905				
27. ELEVATION - GROUND LEVEL 4985			28. BOND NUMBER NM0883			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE City of Roosevelt				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 500	36.0	J-55 ST&C	15.8	Class G	272	1.15	15.8
Prod	8.75	5.5	0 - 5147	17.0	N-80 LT&C	14.3	Halliburton Light , Type Unknown	329	3.49	11.0
							50/50 Poz	436	1.24	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Kimberly Rodell					TITLE President			PHONE 303 942-0506		
SIGNATURE					DATE 11/03/2014			EMAIL krodell@upstreampm.com		
API NUMBER ASSIGNED 43047548950000					APPROVAL  Permit Manager					

Robert L. Bayless Producer LLC
Moon Bottom 9-7
 SHL: 1,696' FNL 1,471' FEL (NW/4 SE/4) Lot 7
 BHL: ±1,313' FNL 2,020' FWL (NE/4 NW/4) Lot 1
 Sec. 9 T10S R19E
 Uintah County, UT
 Surface Lease: UTU3505
 BHL Mineral Lease: UTU76490

DRILLING PROGRAM

(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO 1) and supporting Bureau of Land Management (BLM) documents. This NOS process included an onsite meeting on September 2, 2014, prior to the submittal of the application, at which time the specific concerns of Robert L. Bayless Producer LLC (Bayless) and the BLM were discussed. All specific concerns of the BLM representatives are addressed herein, as are specific stipulations from the BLM.

Please contact John Thomas with Bayless at, 505-326-2659, if there are any questions or concerns regarding this Drilling Program.

SURFACE ELEVATION – 4,985' (Ground Elevation)

SURFACE FORMATION – Uinta Formation – Fresh water possible

1. ESTIMATED FORMATION TOPS – (Water, oil, gas and/or other mineral-bearing formations)

Formation	TVD	MD	Geology
Uinta	12'	12'	
Green River	1,261'	1280'	Sandstone, shales & siltstones
Mahogany	2,112'	2,260'	
Carbonate	4,088'	4,383'	
Uteland Butte	4,646'	4,941'	Sandstone, shales & siltstones
Wasatch	4,805'	5,100'	Shale & sandstone
Total Depth	4,905'	5,147'	

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERAL BEARING FORMATIONS

Estimated depths at which water, oil, gas or other mineral-bearing formations are expected to be encountered:

Formation	TVD	MD	Lithology
Lower Green River	4,088'	4,805'	Gas/Oil

Water zones will be protected by setting 8-5/8" casing to at least 500' and circulating cement back to surface. All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth,

and adequately protected. A sample will be taken of any water flow and furnished to the Vernal Field Office for analysis, if requested. All water shows must be reported within one (1) business day after being encountered.

3. BLOWOUT PREVENTION & PRESSURE CONTROL

- See attached blowout preventer diagram.

Blowout preventer (BOP) and related equipment (BOPE) will be installed, used, maintained, and tested in the manner necessary to assure well control and will be in place and operational prior to drilling the surface casing unless otherwise approved by the APD. The BOP and related control equipment will be suitable for operations in those areas which are subject to sub-freezing conditions. The BOPE will be based on known or anticipated sub-surface pressures, geologic conditions, accepted engineering practice, and surface environment. The working pressure of all BOPE will exceed the anticipated surface pressure to which it may be subjected, assuming a partially evacuated hole with a pressure gradient of 0.22 psi/ft.

The choke manifold and accumulator will meet or exceed all BLM and Utah Division of Oil, Gas and Mining (UDOGM) standards. All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration. The BOP equipment will be tested when initially installed, whenever any seal subject to test pressure is broken, after any repairs to the equipment and at 30-day intervals. Pipe rams, blind rams and annular preventer will be activated on each trip and weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will be documented on rig "tower sheets".

BOP's and choke manifold will be installed and pressure tested before drilling out of surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventers and related pressure control equipment will be pressure tested to related working pressure of the stack assembly, if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly, or 70% of the minimum internal yield of the casing, whichever is less. Annular type preventers will be pressure tested to 50% of their working pressure. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of the internal yield.

A manual locking device (i.e. hand wheels) or automatic locking devices shall be installed on the system. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. The valve will be maintained the open position and will be closed only when the power source for the accumulator system is inoperative. Remote controls will be readily accessible to the driller.

Remote controls for the 3M system will be capable of closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valves (if so equipped).

The drilling rig has not been selected for this well. Selection will take place after approval of this application is granted. Manual and/or hydraulic controls will be in compliance with BLM and UDOGM standards for 3,000 psi system.

DRILLING PROGRAM
Moon Bottom 9-7

4. CASING PROGRAM

Proposed Casing:

Casing Type	Hole Diameter	Casing Diameter	Setting Depth	Grade	Weight (lbs/ft)	Thread/Coupling
Surface	12-1/4"	9-5/8"	Surf – 500'	J-55	36	ST&C
Production	8-3/4"	5-1/2"	Surf – 5,147'	N-80	17	LT&C

5. CEMENT PROGRAM

Job	Fill	Description	Sacks	Excess (%)	Weight	Yield (FT ³ /SK)
Surface	500'	Class G w/2% CaCl ₂ , 0.25 #/sk Cello Flake	272	100%	15.8	1.15
Production Lead	3,500'	Prem Lite II w/3% KCl, 2% Bentonite (or eq. cement)	329	30%	11.0	3.49
Production Tail	1,647'	50/50 Poz Class G w/3% KCl, 2% Bentonite (or eq. cement)	436	30%	14.3	1.24

Cement additives – (Note: Some additives are proprietary products. If another cement contractor is used, these blends and products may vary slightly).

Waiting on Cement (WOC): A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

Cement volumes are based on gauge hole and will be revised as necessary (caliper data or mid log) to ensure coverage of all fresh water and hydrocarbon bearing formations.

9 5/8" Surface casing will be cemented to surface. Cement calculations were performed with 100% excess.

5-1/2" Production casing will be cemented to surface. Cement calculations were performed with 30% excess.

Surface casing may be pre-installed and cemented by a smaller conventional air/mist drilling rig.

6. MUD PROGRAM

Surface: 12 1/4" hole

A freshwater spud mud is recommended to drill this interval. Increase viscosity if needed to 30-35 with Max Gel and Poly Plus to control gravel beds and clean the hole. Add Poly plus down drill pipe every

DRILLING PROGRAM
Moon Bottom 9-7

connection and monitor the drill-string for tight connections. If tight connections are encountered, increase the viscosity to 35-45 in the active system with Max Gel. When total depth (TD) is reached circulate at least one bottoms up and observe shakers to make sure the hole is clean prior to making a wiper trip. Make a wiper trip to the shoe to clean the well bore to increase the ability to run a string of 8 5/8" casing to TD. PVT/Flow show and gas detector will be used upon exiting the surface casing.

Vertical 7 7/8" hole (500' – 9,030')

Before drilling out 8 3/4" hole. Clean out mud pits, ensure all valves and equipment in the mud tanks are fully functional. Drill ahead with cleaned mud from the surface interval. Maintain Funnel Viscosity at 27-32 sec. Running 450-550 gpm pump rates should be adequate to clean the hole. Increase the viscosity as needed if the rig pumps cannot create enough hydraulics for optimal cleaning. Follow the sweep schedule and continue with Poly Plus sweeps down the drill pipe on connections. Add DAP to maintain content at 2-3 ppb. Do not drill this interval with less than 2 ppb DAP. In this area 3 ppb should be adequate. If hole is loading up, increase viscosity to 30-35 sec/qt with Max Gel and increase number of hi-vis sweeps pumped, do not allow more than two sweeps to be in the hole at once.

7. LOGGING, CORING TESTING PROGRAM

Logging: Triple Combo: TD to base of surface casing (GR-RES-CNL to surface)
Mud Log: Mud logger will be present to TD
Coring: None anticipated.
DST: None anticipated.

8. GEOLOGIC CONDITIONS

Estimated maximum bottom-hole pressure: 2,207 psi
Abnormal pressures: None anticipated
Abnormal temperatures: None anticipated
Additional potential hazards: None anticipated
Anticipated bottomhole pressure: 0.45 psi/ft.

9. ADDITIONAL FACETS OF PROPOSED OPERATIONS

Anticipated spud date is April 15, 2015.
Drilling Duration: 7 days
Completion Duration: 5 days

Completion:

Final determination of completion design will be made by the analysis of mud logging data and formation characteristics. The location pad will be sufficient size to accommodate all completion equipment activities and equipment. A string of 2 7/8", 6.5#, J-55, EUE 8rnd will be run as production tubing. A Sundry Notice (SN) will be submitted with a revised completion program, if warranted.

Robert L. Bayless Producer LLC

Moon Bottom 9-7

SHL: 1,696' FNL 1,471' FEL (NW/4SE/4) Lot 7
 BHL: ±1,313' FNL ±2,020' FWL (NE/4NW/4) LOT 1
 Sec. 9 T10S R19E
 Uintah County, Utah
 Surface Hole Federal Lease: UTU3505
 Bottom Hole Federal Mineral Lease: UTU76490

SURFACE CASING AND CENTRALIZER DESIGN

Proposed Total Depth: 4,905 ' TVD 5,147 ' - MD
 Proposed Depth of Surface Casing: 500 ' MD
 Estimated Pressure Gradient: 0.45 psi/ft
 Bottom Hole Pressure at 4,905 ' = 2,207 psi
 $0.45 \text{ psi/ft} \times 4,905 ' = 2,207 \text{ psi}$
 Hydrostatic Head of gas/oil mud: 0.22 psi/ft
 $0.22 \text{ psi/ft} \times 4,905 ' = 1,079 \text{ psi}$

Maximum Design Surface Pressure

Bottom Hole Pressure – Hydrostatic Head =
 $(0.45 \text{ psi/ft} \times 4,905 ') - (0.22 \text{ psi/ft} \times 4,905 ') =$
 $2,207 \text{ psi} - 1,079 \text{ psi} = 1,128 \text{ psi}$

Casing Strengths 9-5/8" J-55 36# ST&C

Wt.	Tension (lbs)	Burst (psi)	Collapse (psi)
36 #	394,000	3,520	2,020

Safety Factors

Tension (Dry): 1.8 Burst: 1.0 Collapse: 1.125

Tension (Dry): 36 # / ft x 500 ' = 18,000 #
 Safety Factor = $\frac{394,000}{18,000} = 21.89$ ok

Burst: Safety Factor = $\frac{3,520 \text{ psi}}{1,128 \text{ psi}} = 3.12$ ok

Collapse: Hydrostatic = $0.052 \times 9.0 \text{ ppg} \times 500 ' = 234 \text{ psi}$
 Safety Factor = $\frac{2,020 \text{ psi}}{234 \text{ psi}} = 8.63$ ok

Use 500 ' 9-5/8" J-55 36# ST&C

Use 2,000 psi minimum casinghead and BOP's

Centralizers

8 Total

1 near surface at 160'

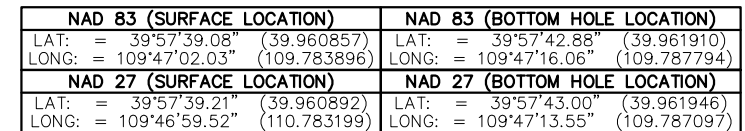
3 -1 each at middle of bottom joint, second joint, third joint

4 -1 each at every other joint ±80' spacing

Total centralized ± 600 ' (-100 ' – 500 ')

Note that field experience indicates that additional centralizers greatly increase the chance of "sticking" the surface casing prior to reaching surface casing total depth.

WELL LOCATION, MOON BOTTOM 9-7, LOCATED
AS SHOWN IN THE NW 1/4 SE 1/4 (LOT 7) OF
SECTION 9, T10S, R19E, S.L.B.&M., Uintah
COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TO THE BEST OF MY KNOWLEDGE

REG No. 189377

07-03-14

STACY W.

NEWARK

REGISTERED CARPENTRY

REISTRATION NO. 189377

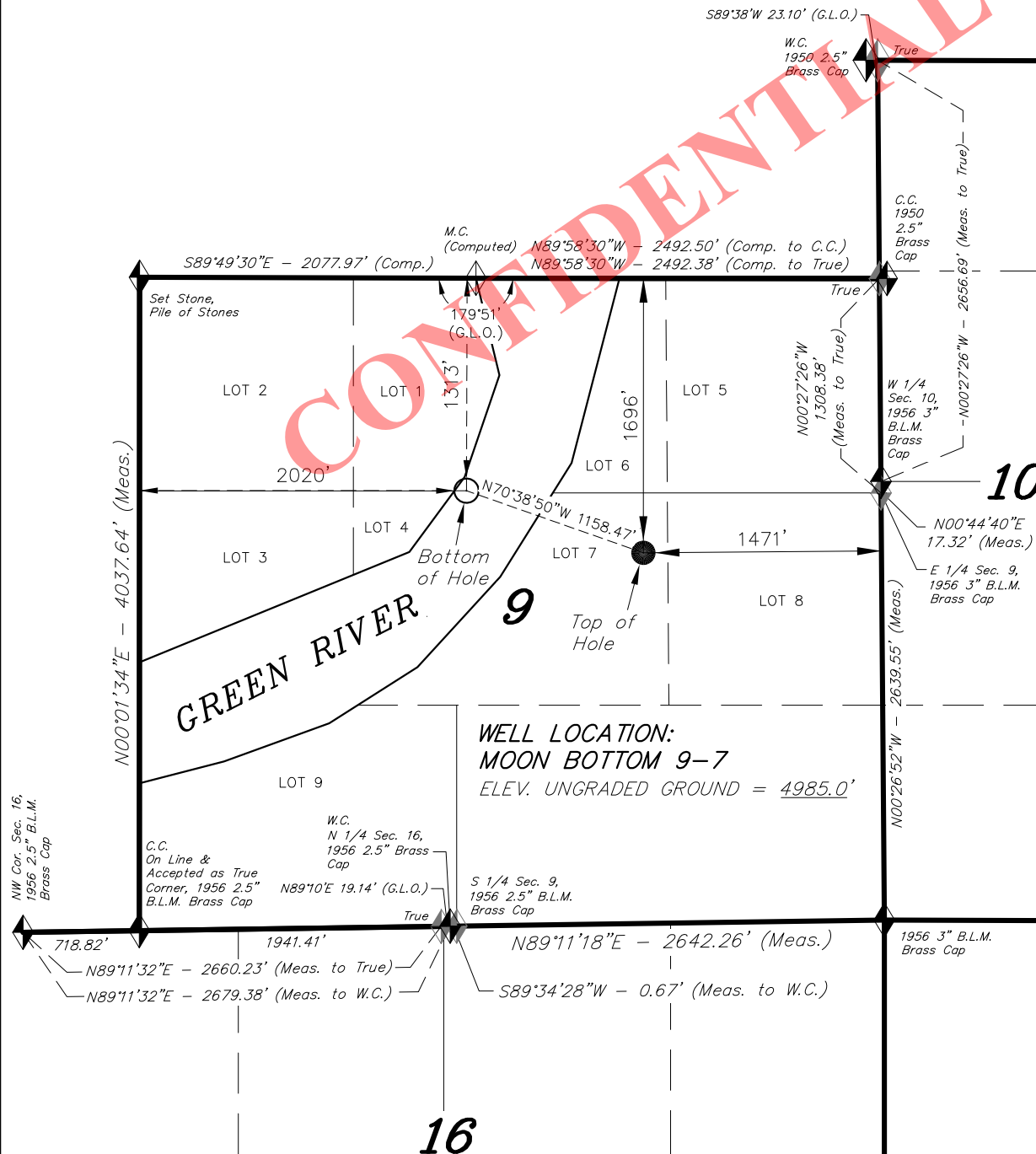
STATE OF OHIO

TAH

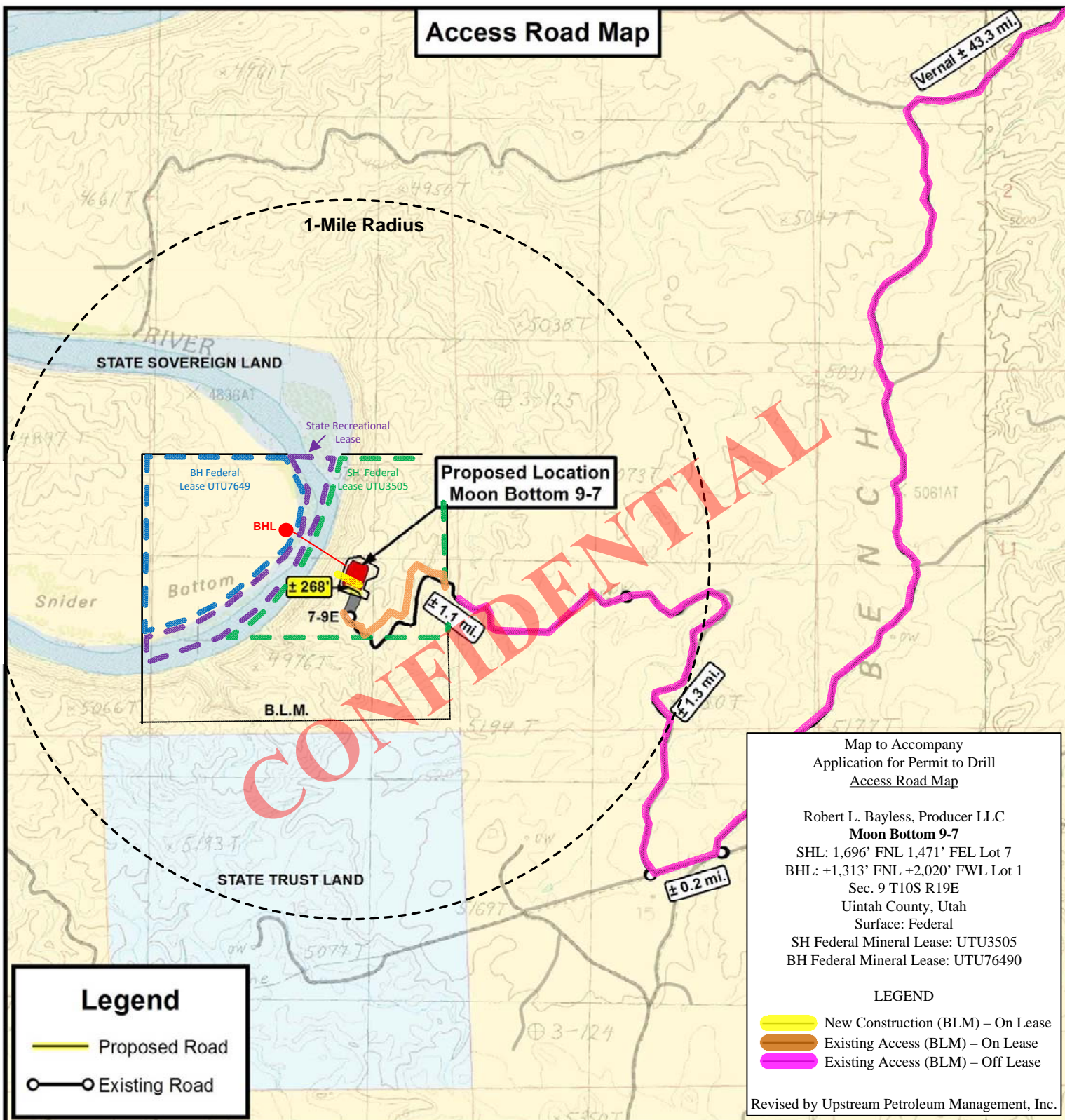
(435) 781-2501

DATE SURVEYED: 05-21-14	SURVEYED BY: C.D.S.
DATE DRAWN: 06-16-14	DRAWN BY: L.C.S.
REVISED: L.C.S. 07-03-14	SCALE: 1" = 1000'

RECEIVED: November 03, 2014



Access Road Map

TOTAL PROPOSED ROAD DISTANCE: $\pm 268'$

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518

**ROBERT L. BAYLESS PRODUCER LLC**

**Moon Bottom 9-7
SEC. 9, T10S, R19E, S.L.B.&M.
Uintah County, UT.**

DRAWN BY: J.A.S. REVISED: 09-04-2014 J.A.S.

DATE: 06-27-2014

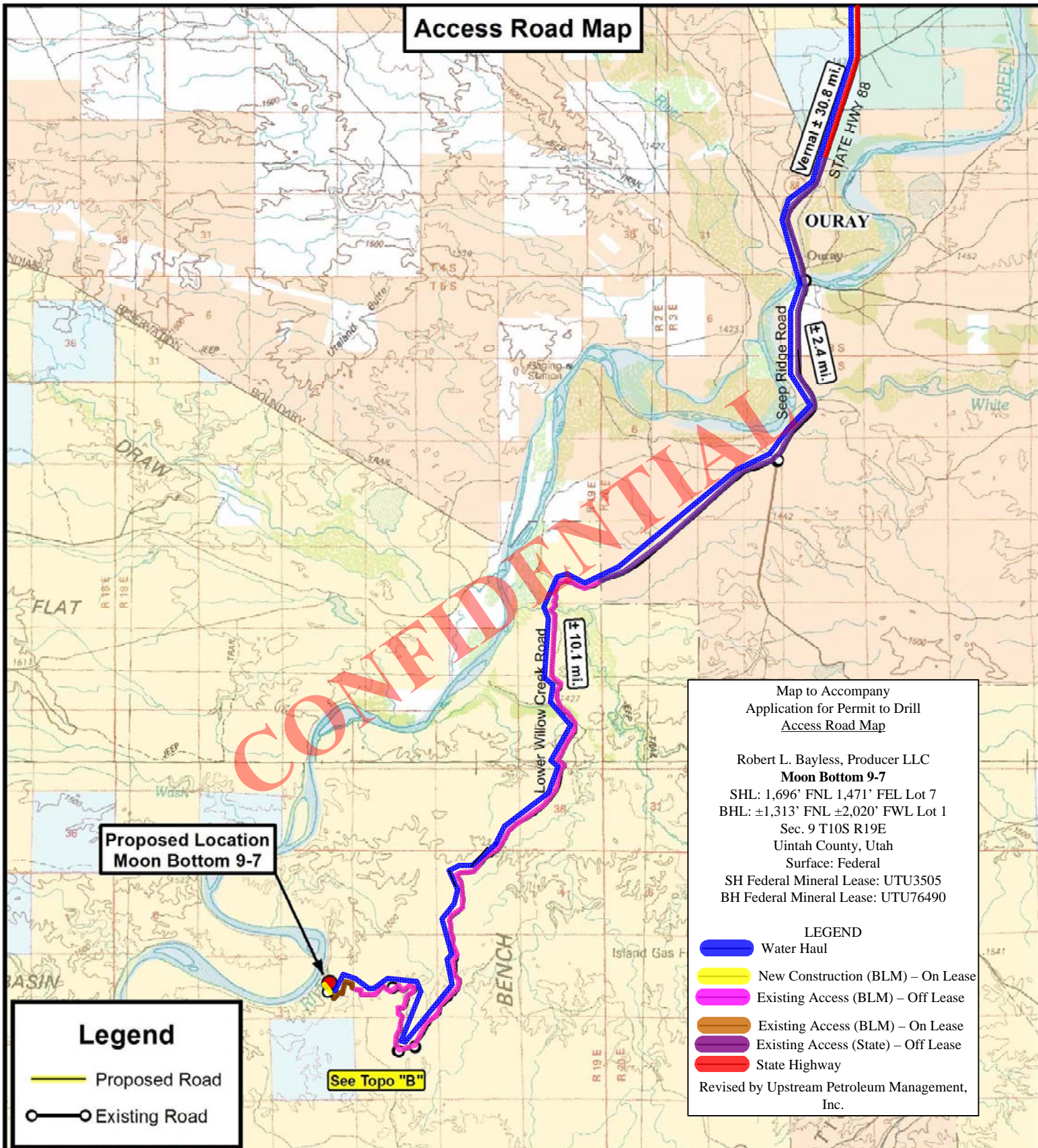
SCALE: 1" = 2,000'

TOPOGRAPHIC MAP

SHEET

B

Access Road Map



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518

DRAWN BY:	J.A.S.	REVISED:	09-04-2014 J.A.S.
DATE:	06-27-2014		
SCALE:	1:100,000		



ROBERT L. BAYLESS PRODUCER LLC

**Moon Bottom 9-7
SEC. 9, T10S, R19E, S.L.B.&M.
Uintah County, UT.**

TOPOGRAPHIC MAP

SHEET

A

API Well Number: 43047548950000



Company: Robert L. Bayless Producer LLC

Field: Uintah County, UT (NAD83)

Location: Sec 9 T10S R19E

Well: Moon Bottom 9-7

Original Wellbore

Plan: Design #2 (Moon Bottom 9-7/Original Wellbore)

WELL @ 4997.0usft (Original Well Elev)

gyrodata

Precision Wellbore Placement

SECTION DETAILS

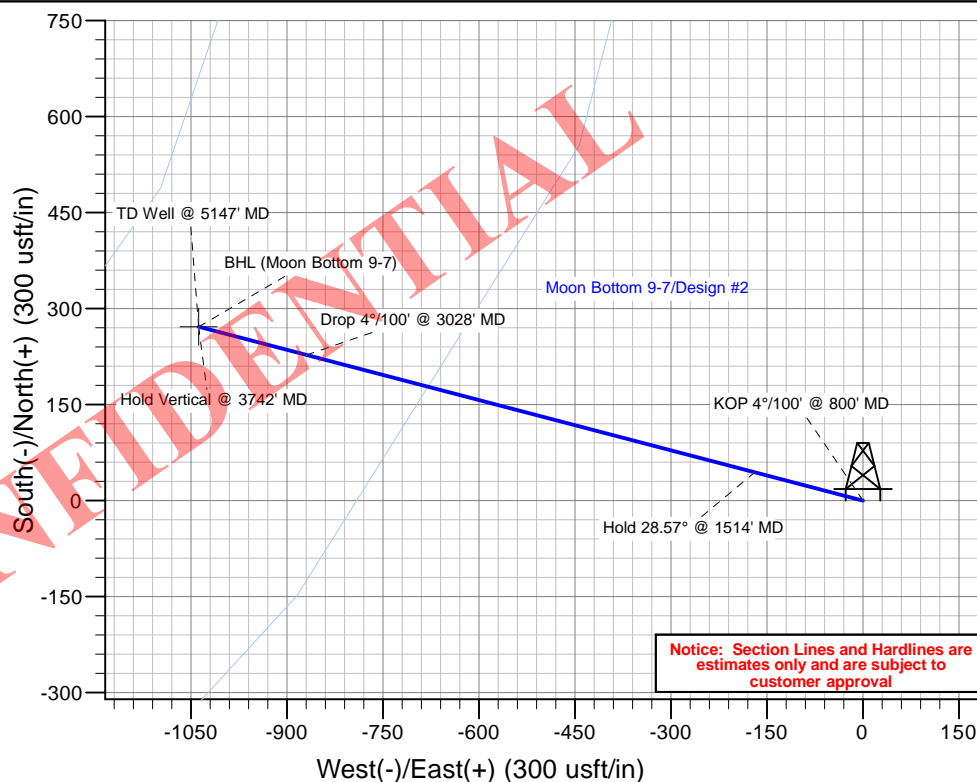
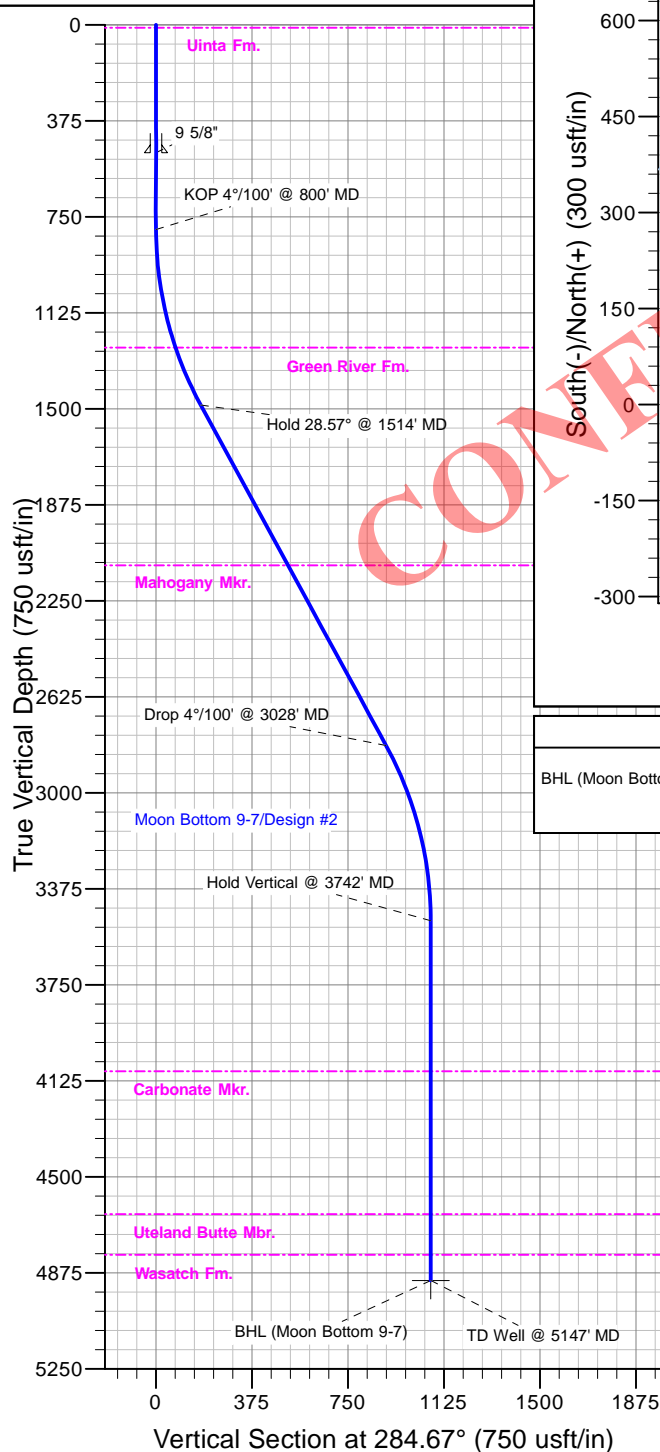
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1514.2	28.57	284.67	1485.0	44.2	-168.7	4.00	284.67	174.4	
4	3028.6	28.57	284.67	2815.0	227.6	-869.3	0.00	0.00	898.6	
5	3742.9	0.00	0.00	3500.0	271.7	-1038.1	4.00	180.00	1073.0	
6	5147.9	0.00	0.00	4905.0	271.7	-1038.1	0.00	0.00	1073.0	BHL (Moon Bottom 9-7)

WELL DETAILS: Moon Bottom 9-7

		Ground Level: 4985.0		WELL @ 4997.0usft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	7159080.19	2121402.92	39° 57' 39.085 N	109° 47' 2.026 W		

CASING DETAILS

TVD	MD	Name	Size
500.0	500.0	9 5/8"	9-5/8

Azimuths to True North
Magnetic North: 10.71°Magnetic Field
Strength: 51900.8nT
Dip Angle: 65.69°
Date: 03/01/2015
Model: IGRF2010

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL (Moon Bottom 9-7)	4905.0	271.7	-1038.1	7159331.96	2120359.83	39° 57' 41.771 N	109° 47' 15.358 W

ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP 4°/100' @ 800' MD
1485.0	1514.2	Hold 28.57° @ 1514' MD
2815.0	3028.6	Drop 4°/100' @ 3028' MD
3500.0	3742.9	Hold Vertical @ 3742' MD
4905.0	5147.9	TD Well @ 5147' MD

PROJECT DETAILS: Uintah County, UT (NAD83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
12.0	12.0	Uinta Fm.
1261.0	1269.4	Green River Fm.
2112.0	2228.2	Mahogany Mkr.
4088.0	4330.9	Carbonate Mkr.
4646.0	4888.9	Uteland Butte Mbr.
4805.0	5047.9	Wasatch Fm.

Plan: Design #2 (Moon Bottom 9-7/Original Wellbore)

Created By: Breck Enoch Date: 15:33, September 24 2014

RECEIVED



Robert L. Bayless Producer LLC

Uintah County, UT (NAD83)

Sec 9 T10S R19E

Moon Bottom 9-7

Original Wellbore

Plan: Design #2

Standard Planning Report

24 September, 2014

gyro/data

Precision Wellbore Placement

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Moon Bottom 9-7
Company:	Robert L. Bayless Producer LLC	TVD Reference:	WELL @ 4997.0usft (Original Well Elev)
Project:	Uintah County, UT (NAD83)	MD Reference:	WELL @ 4997.0usft (Original Well Elev)
Site:	Sec 9 T10S R19E	North Reference:	True
Well:	Moon Bottom 9-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Project	Uintah County, UT (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		Sec 9 T10S R19E			
Site Position:		Northing:	7,159,080.19 usft	Latitude:	39° 57' 39.085 N
From:	Lat/Long	Easting:	2,121,402.92 usft	Longitude:	109° 47' 2.026 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.10

Well	Moon Bottom 9-7					
Well Position	+N/-S	0.0 usft	Northing:	7,159,080.19 usft	Latitude:	39° 57' 39.085 N
	+E/-W	0.0 usft	Easting:	2,121,402.92 usft	Longitude:	109° 47' 2.026 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,985.0 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/01/15	10.71	65.69	51,901

Design	Design #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	284.67

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,514.2	28.57	284.67	1,485.0	44.2	-168.7	4.00	4.00	0.00	284.67	
3,028.6	28.57	284.67	2,815.0	227.6	-869.3	0.00	0.00	0.00	0.00	
3,742.9	0.00	0.00	3,500.0	271.7	-1,038.1	4.00	-4.00	0.00	180.00	
5,147.9	0.00	0.00	4,905.0	271.7	-1,038.1	0.00	0.00	0.00	0.00	BHL (Moon Bottom 9-

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Moon Bottom 9-7
Company:	Robert L. Bayless Producer LLC	TVD Reference:	WELL @ 4997.0usft (Original Well Elev)
Project:	Uintah County, UT (NAD83)	MD Reference:	WELL @ 4997.0usft (Original Well Elev)
Site:	Sec 9 T10S R19E	North Reference:	True
Well:	Moon Bottom 9-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
12.0	0.00	0.00	12.0	0.0	0.0	0.0	0.00	0.00	0.00
Uinta Fm.									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 4°/100' @ 800' MD									
900.0	4.00	284.67	899.9	0.9	-3.4	3.5	4.00	4.00	0.00
1,000.0	8.00	284.67	999.4	3.5	-13.5	13.9	4.00	4.00	0.00
1,100.0	12.00	284.67	1,097.8	7.9	-30.3	31.3	4.00	4.00	0.00
1,200.0	16.00	284.67	1,194.8	14.1	-53.7	55.5	4.00	4.00	0.00
1,269.4	18.77	284.67	1,261.0	19.3	-73.7	76.2	4.00	4.00	0.00
Green River Fm.									
1,300.0	20.00	284.67	1,289.9	21.9	-83.6	86.4	4.00	4.00	0.00
1,400.0	24.00	284.67	1,382.6	31.4	-119.8	123.8	4.00	4.00	0.00
1,500.0	28.00	284.67	1,472.5	42.5	-162.2	167.7	4.00	4.00	0.00
1,514.2	28.57	284.67	1,485.0	44.2	-168.7	174.4	4.00	4.00	0.00
Hold 28.57° @ 1514' MD									
1,600.0	28.57	284.67	1,560.3	54.6	-208.4	215.4	0.00	0.00	0.00
1,700.0	28.57	284.67	1,648.1	66.7	-254.7	263.2	0.00	0.00	0.00
1,800.0	28.57	284.67	1,736.0	78.8	-300.9	311.1	0.00	0.00	0.00
1,900.0	28.57	284.67	1,823.8	90.9	-347.2	358.9	0.00	0.00	0.00
2,000.0	28.57	284.67	1,911.6	103.0	-393.5	406.7	0.00	0.00	0.00
2,100.0	28.57	284.67	1,999.4	115.1	-439.7	454.5	0.00	0.00	0.00
2,200.0	28.57	284.67	2,087.3	127.2	-486.0	502.4	0.00	0.00	0.00
2,228.2	28.57	284.67	2,112.0	130.6	-499.0	515.8	0.00	0.00	0.00
Mahogany Mkr.									
2,300.0	28.57	284.67	2,175.1	139.3	-532.3	550.2	0.00	0.00	0.00
2,400.0	28.57	284.67	2,262.9	151.4	-578.5	598.0	0.00	0.00	0.00
2,500.0	28.57	284.67	2,350.7	163.5	-624.8	645.8	0.00	0.00	0.00
2,600.0	28.57	284.67	2,438.6	175.7	-671.0	693.7	0.00	0.00	0.00
2,700.0	28.57	284.67	2,526.4	187.8	-717.3	741.5	0.00	0.00	0.00
2,800.0	28.57	284.67	2,614.2	199.9	-763.6	789.3	0.00	0.00	0.00
2,900.0	28.57	284.67	2,702.0	212.0	-809.8	837.1	0.00	0.00	0.00
3,000.0	28.57	284.67	2,789.9	224.1	-856.1	884.9	0.00	0.00	0.00
3,028.6	28.57	284.67	2,815.0	227.6	-869.3	898.6	0.00	0.00	0.00
Drop 4°/100' @ 3028' MD									
3,100.0	25.71	284.67	2,878.5	235.8	-900.8	931.2	4.00	-4.00	0.00
3,200.0	21.71	284.67	2,970.0	246.0	-939.7	971.4	4.00	-4.00	0.00
3,300.0	17.71	284.67	3,064.2	254.5	-972.4	1,005.1	4.00	-4.00	0.00
3,400.0	13.71	284.67	3,160.4	261.4	-998.6	1,032.2	4.00	-4.00	0.00
3,500.0	9.71	284.67	3,258.3	266.5	-1,018.2	1,052.5	4.00	-4.00	0.00
3,600.0	5.71	284.67	3,357.4	269.9	-1,031.2	1,065.9	4.00	-4.00	0.00
3,700.0	1.71	284.67	3,457.1	271.6	-1,037.4	1,072.4	4.00	-4.00	0.00
3,742.9	0.00	0.00	3,500.0	271.7	-1,038.1	1,073.0	4.00	-4.00	0.00
Hold Vertical @ 3742' MD									
3,800.0	0.00	0.00	3,557.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Moon Bottom 9-7
Company:	Robert L. Bayless Producer LLC	TVD Reference:	WELL @ 4997.0usft (Original Well Elev)
Project:	Uintah County, UT (NAD83)	MD Reference:	WELL @ 4997.0usft (Original Well Elev)
Site:	Sec 9 T10S R19E	North Reference:	True
Well:	Moon Bottom 9-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.0	0.00	0.00	3,657.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,757.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,100.0	0.00	0.00	3,857.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,200.0	0.00	0.00	3,957.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,057.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,330.9	0.00	0.00	4,088.0	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
Carbonate Mkr.									
4,400.0	0.00	0.00	4,157.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,257.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,357.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,457.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,557.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
4,888.9	0.00	0.00	4,646.0	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
Uteland Butte Mbr.									
4,900.0	0.00	0.00	4,657.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,757.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
5,047.9	0.00	0.00	4,805.0	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
Wasatch Fm.									
5,100.0	0.00	0.00	4,857.1	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
5,147.9	0.00	0.00	4,905.0	271.7	-1,038.1	1,073.0	0.00	0.00	0.00
TD Well @ 5147' MD - PBHL (Moon Bottom 9-7) - BHL (Moon Bottom 9-7)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Moon Bottom 9-7)	0.00	0.00	4,905.0	271.7	-1,038.1	7,159,331.96	2,120,359.83	39° 57' 41.771 N	109° 47' 15.358 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
500.0	500.0	9 5/8"	9-5/8	12-1/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12.0	12.0	Uinta Fm.		0.00	
1,269.4	1,261.0	Green River Fm.		0.00	
2,228.2	2,112.0	Mahogany Mkr.		0.00	
4,330.9	4,088.0	Carbonate Mkr.		0.00	
4,888.9	4,646.0	Uteland Butte Mbr.		0.00	
5,047.9	4,805.0	Wasatch Fm.		0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Moon Bottom 9-7
Company:	Robert L. Bayless Producer LLC	TVD Reference:	WELL @ 4997.0usft (Original Well Elev)
Project:	Uintah County, UT (NAD83)	MD Reference:	WELL @ 4997.0usft (Original Well Elev)
Site:	Sec 9 T10S R19E	North Reference:	True
Well:	Moon Bottom 9-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

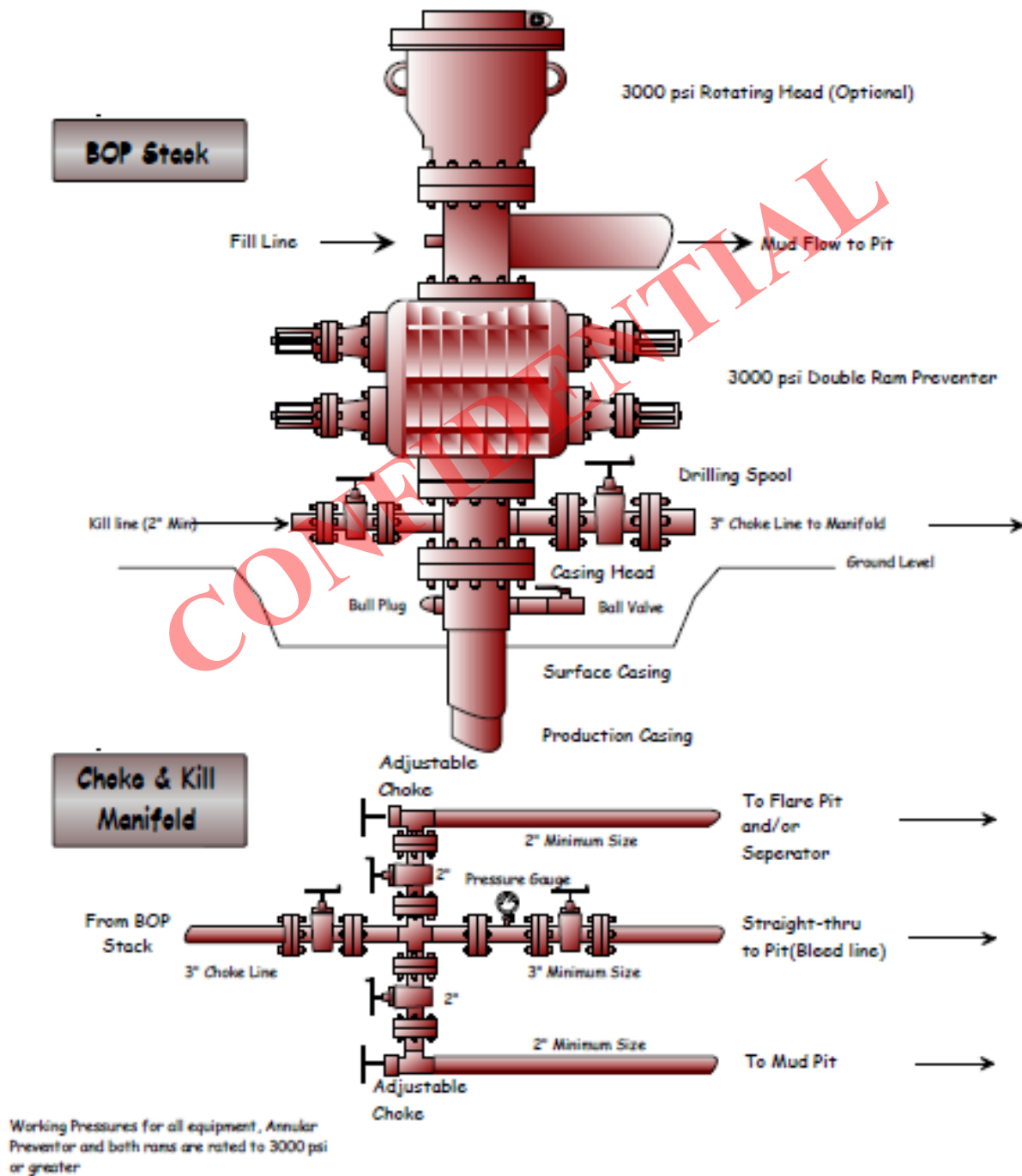
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.0	800.0	0.0	0.0	KOP 4°/100' @ 800' MD
1,514.2	1,485.0	44.2	-168.7	Hold 28.57° @ 1514' MD
3,028.6	2,815.0	227.6	-869.3	Drop 4°/100' @ 3028' MD
3,742.9	3,500.0	271.7	-1,038.1	Hold Vertical @ 3742' MD
5,147.9	4,905.0	271.7	-1,038.1	TD Well @ 5147' MD

CONFIDENTIAL

EXHIBIT 3

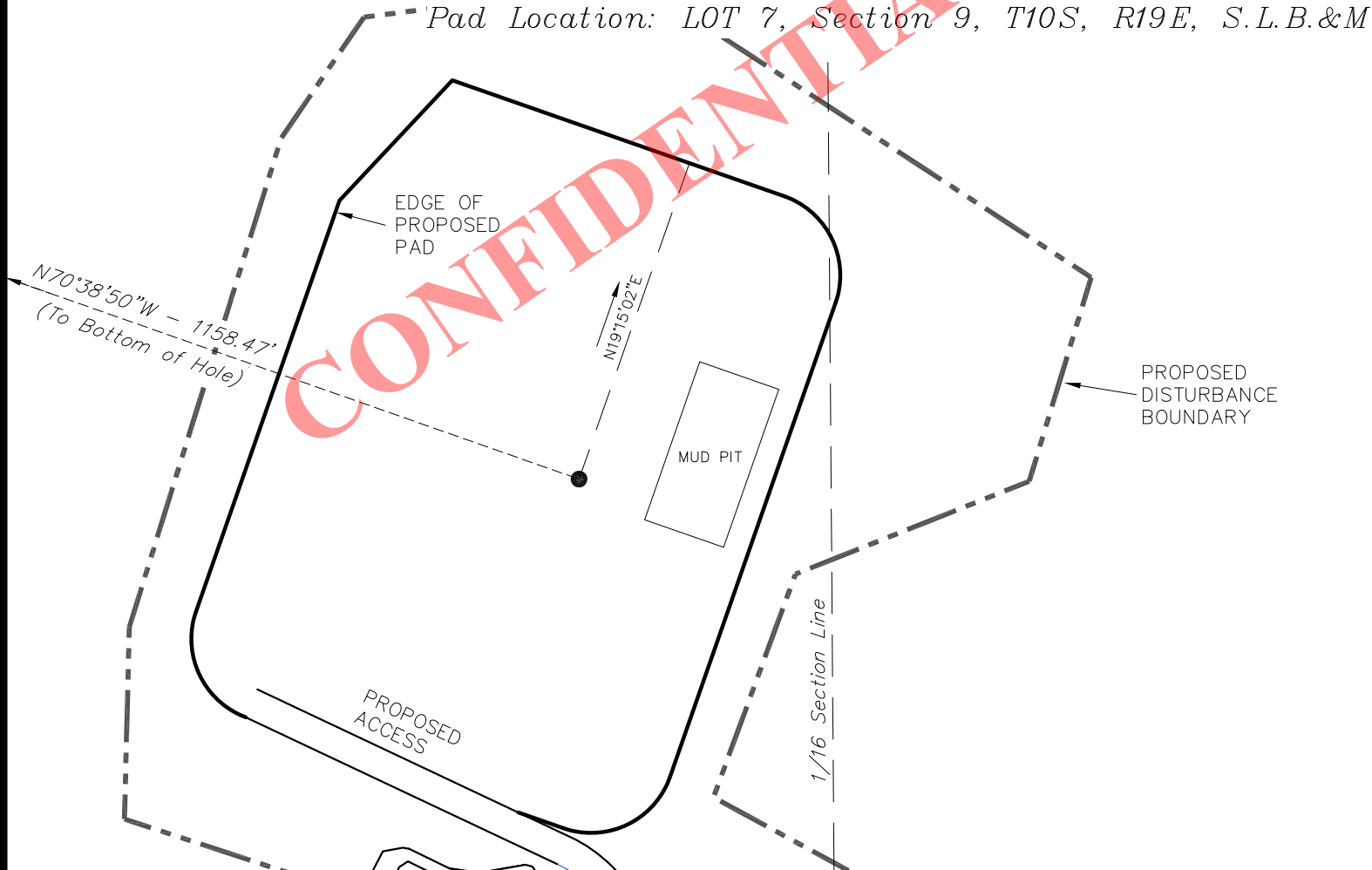
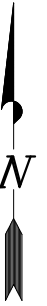
Robert L. Bayless, Producer LLC

BOP and Choke Manifold For 3000 psi Service



ROBERT L. BAYLESS, PRODUCER LLC.**PROPOSED LOCATION LAYOUT****MOON BOTTOM 9-7**

Pad Location: LOT 7, Section 9, T10S, R19E, S.L.B.&M



Note:
Bearings are
based on GPS
Observations.

	SURFACE WELL HOLE FOOTAGES FROM SECTION LINES	TARGET BOTTOM HOLE FOOTAGES FROM SECTION LINES	SURFACE POSITION LATITUDE & LONGITUDE (NAD 83)		RELATIVE COORDINATES TOP OF HOLE TO BOTTOM OF HOLE	
WELL	SURFACE HOLE	BOTTOM HOLE	LATITUDE	LONGITUDE	NORTH	EAST
9-7	1696' FNL 1471' FEL	1313' FNL 2020' FWL	39°57'39.08"	109°47'02.03"	384'	-1,093'

EXISTING
XTO 7-9E
WELL PAD

SURVEYED BY:	C.D.R.	DATE SURVEYED:	05-21-14
DRAWN BY:	L.C.S.	DATE DRAWN:	07-03-14
SCALE:	1" = 100'	REVISED:	L.C.S. 09-03-14

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

RECEIVED: November 03, 2014

ROBERT L. BAYLESS, PRODUCER LLC

PROPOSED LOCATION LAYOUT

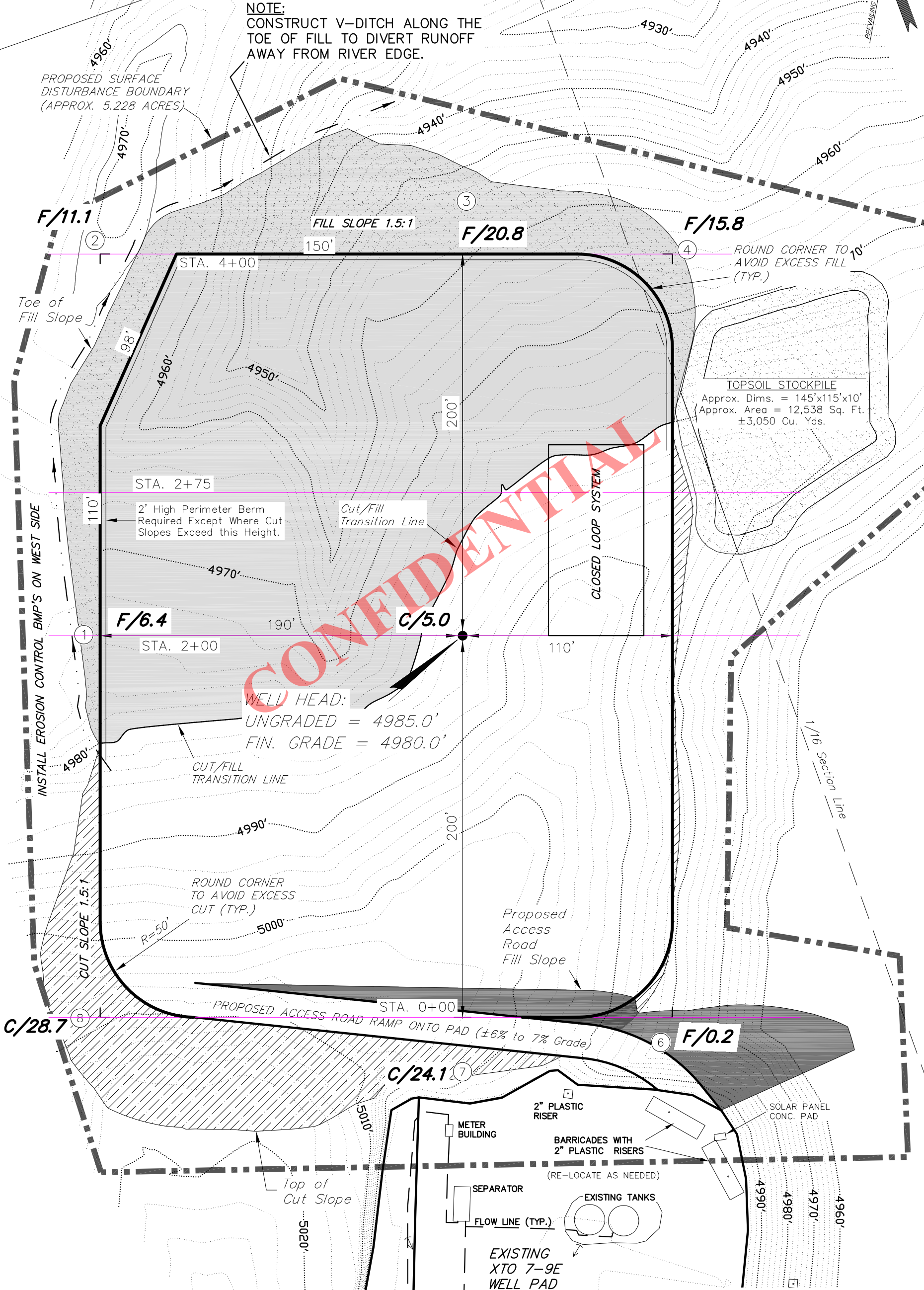
MOON BOTTOM 9-7

Pad Location: LOT 7, Section 9, T10S, R19E, S.L.B.&M.



NOTE:
CONSTRUCT V-DITCH ALONG THE
TOE OF FILL TO DIVERT RUNOFF
AWAY FROM RIVER EDGE.

PROPOSED SURFACE
DISTURBANCE BOUNDARY
(APPROX. 5.228 ACRES)



NOTE:
The topsoil & excess material areas are calculated as being mounds
containing 3,050 cubic yards of dirt (a 10% fluff factor is included). The
mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Topsoil to be Stripped From All
New Construction Areas and
Proposed Stock Pile Locations

SURVEYED BY:	C.D.S.	DATE SURVEYED:	05-21-14
DRAWN BY:	L.C.S.	DATE DRAWN:	06-16-14
SCALE:	1" = 50'	REVISED:	L.C.S. 09-03-14

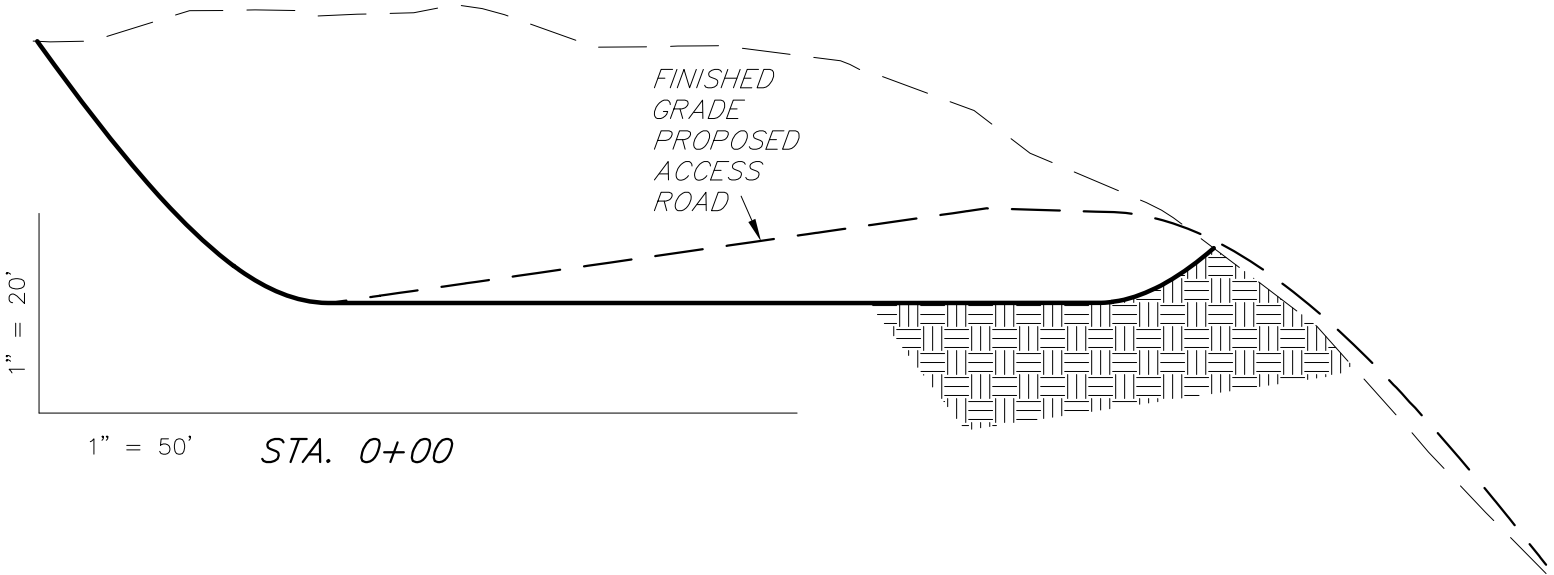
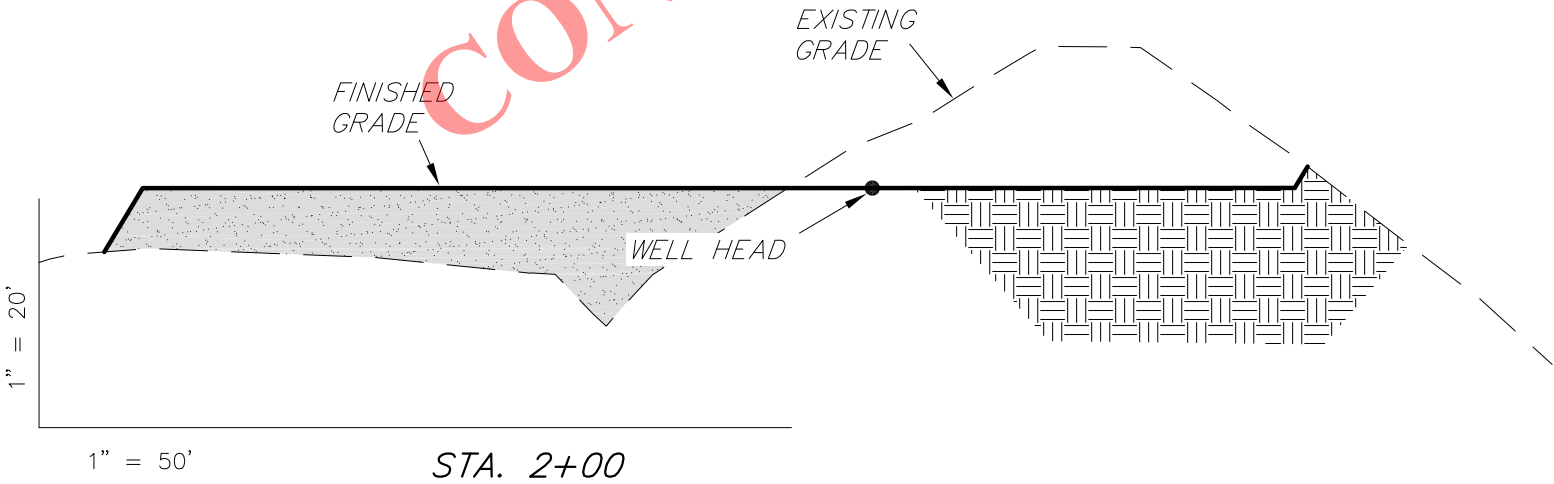
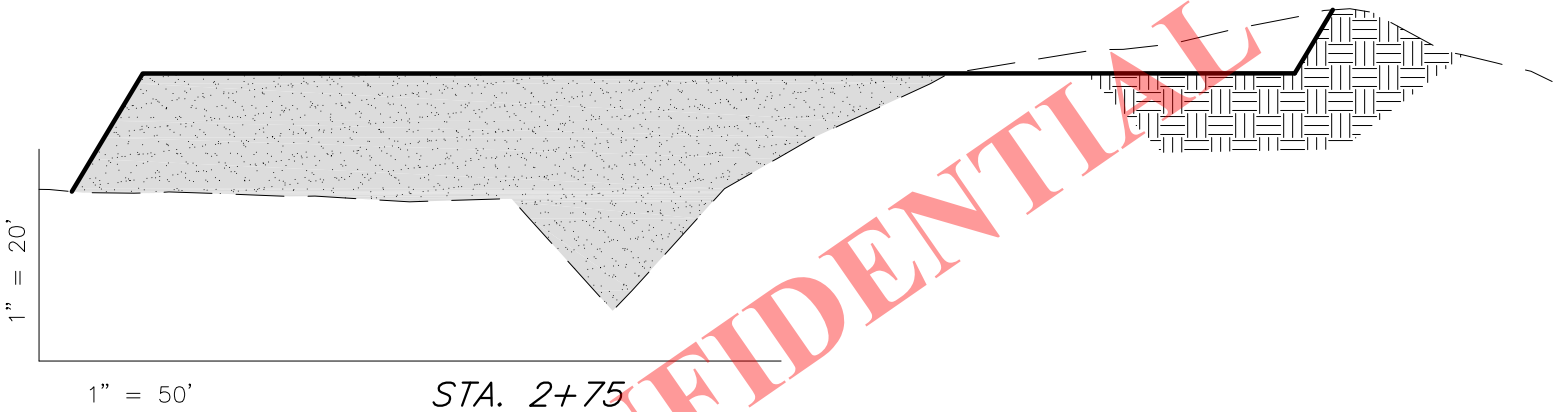
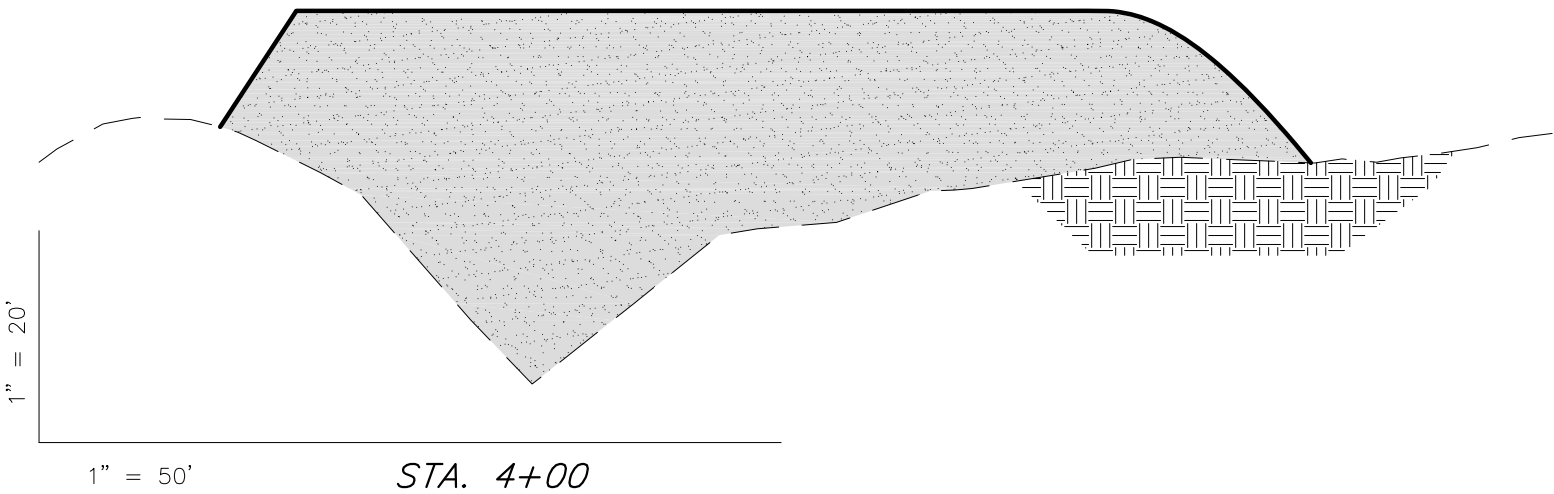
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ROBERT L. BAYLESS, PRODUCER LLC

CROSS SECTIONS

MOON BOTTOM 9-7

Pad Location: LOT 7, Section 9, T10S, R19E, S.L.B.&M.



NOTE:
UNLESS OTHERWISE
NOTED ALL
FILL SLOPES ARE AT 1.5:1
CUT SLOPES ARE AT 1.5:1

SURVEYED BY:	C.D.S.	DATE SURVEYED:	05-21-14
DRAWN BY:	L.C.S.	DATE DRAWN:	06-16-14
SCALE:	1" = 50'	REVISED:	L.C.S. 09-03-14

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	35,690	34,140	Topsoil is not included in Pad Cut Volume	1,550
ROAD	170	1,720		<-1,550>
TOTALS	35,860	35,860	2,770	0

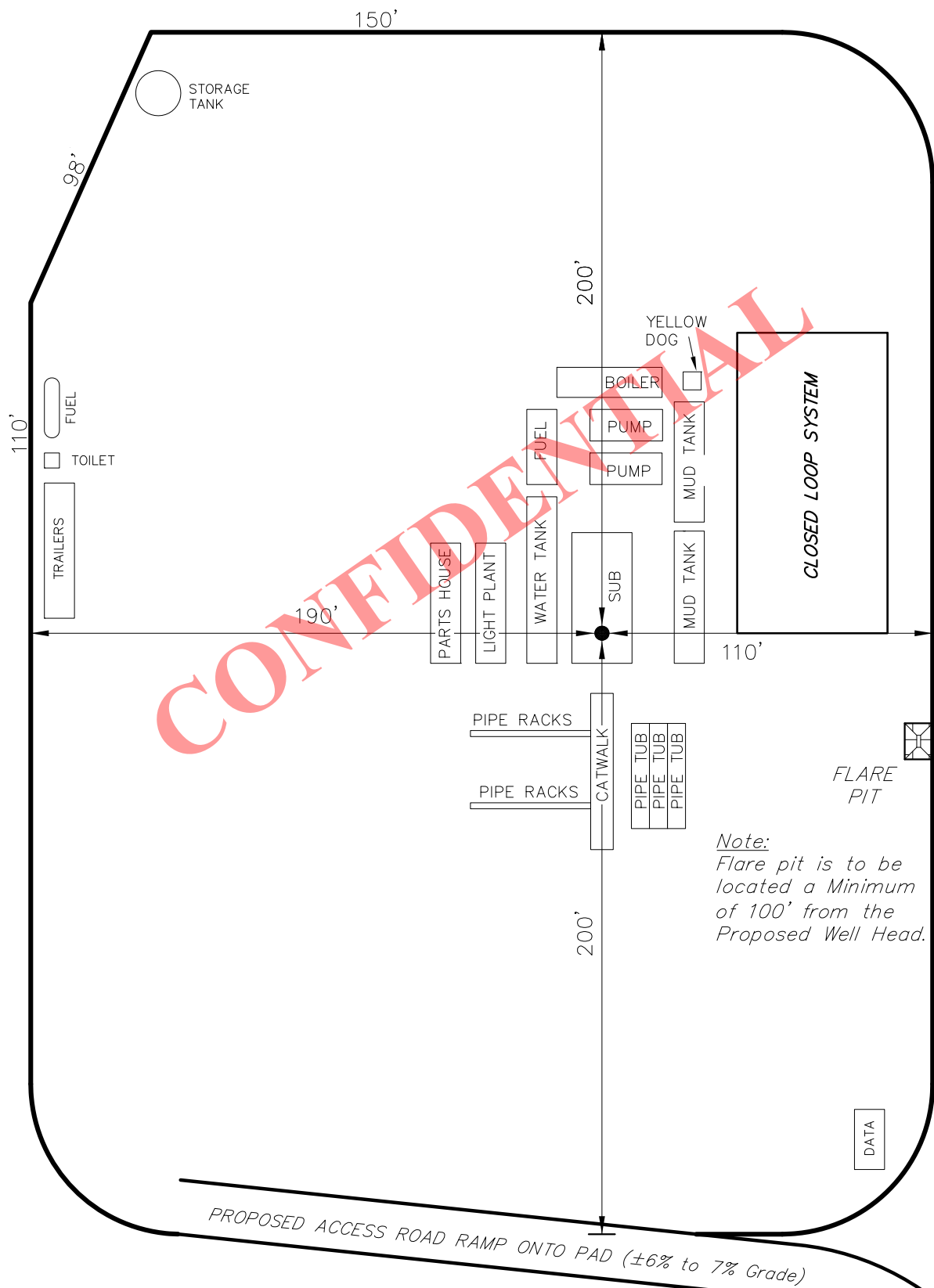
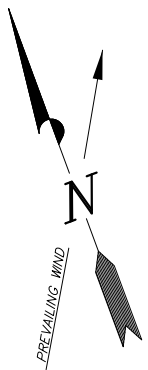
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(435) 781-2501

ROBERT L. BAYLESS, PRODUCER LLC
TYPICAL RIG LAYOUT – CLOSED LOOP
MOON BOTTOM 9-7
Pad Location: LOT 7, Section 9, T10S, R19E, S.L.B.&M.



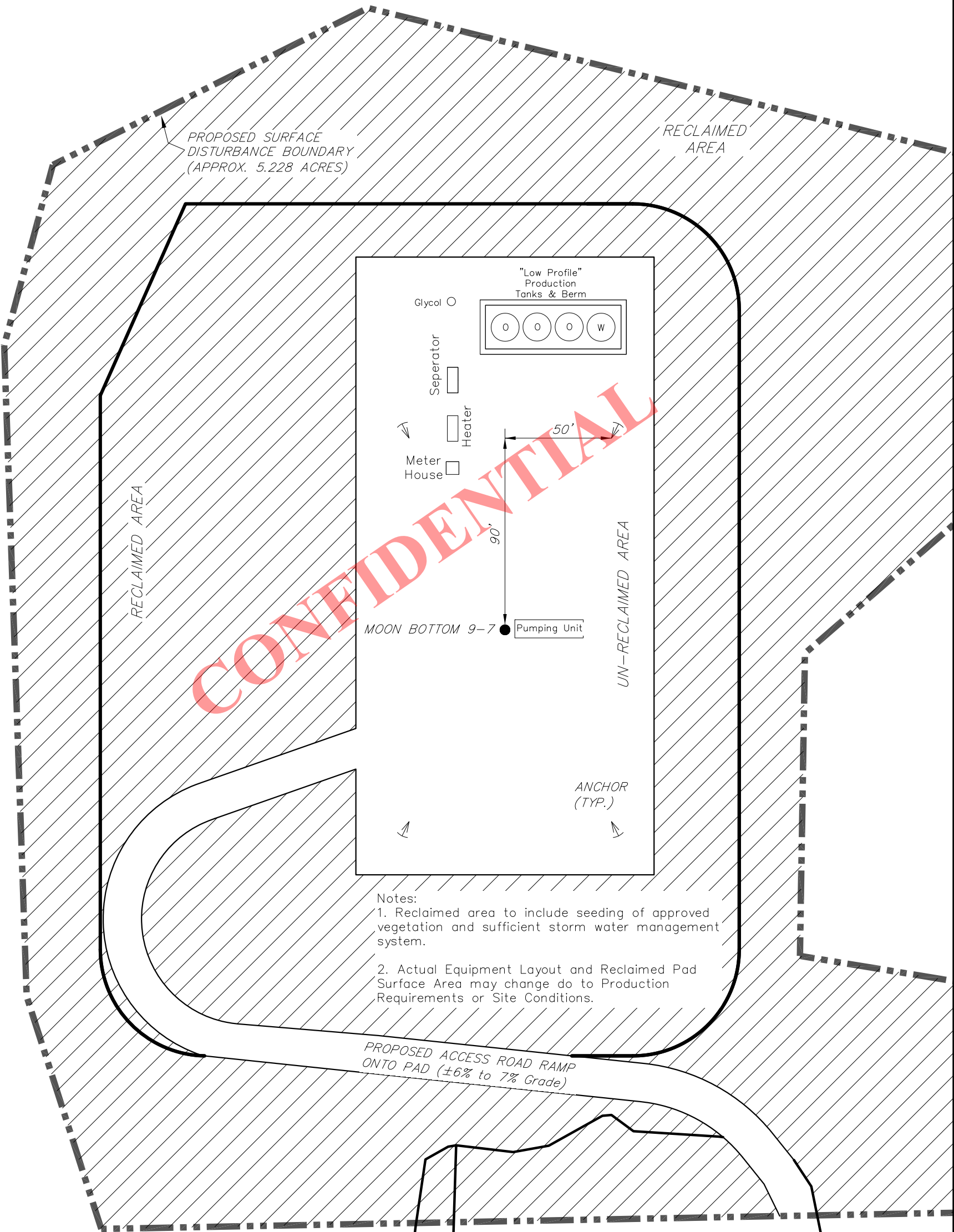
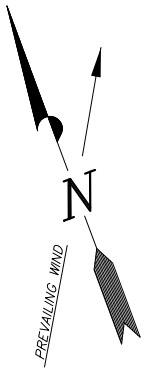
EXISTING
XTO 7-9E
WELL PAD

SURVEYED BY:	C.D.S.	DATE SURVEYED:	05-21-14
DRAWN BY:	L.C.S.	DATE DRAWN:	06-16-14
SCALE:	1" = 50'	REVISED:	L.C.S. 09-03-14

Tri State
Land Surveying, Inc.

(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

ROBERT L. BAYLESS, PRODUCER LLC
PROPOSED PRODUCTION SCHEMATIC AND INTERIM RECLAMATION PLAN
MOON BOTTOM 9-7
Pad Location: LOT 7, Section 9, T10S, R19E, S.L.B.&M.



- Notes:
- 1. Reclaimed area to include seeding of approved vegetation and sufficient storm water management system.
 - 2. Actual Equipment Layout and Reclaimed Pad Surface Area may change do to Production Requirements or Site Conditions.

DISTURBED AREA:
TOTAL DISTURBED AREA = 5.228 ACRES
TOTAL RECLAIMED AREA = 4.079 ACRES
UNRECLAIMED AREA = 1.149 ACRES

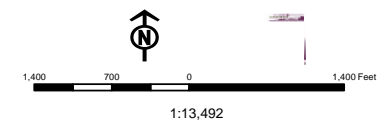
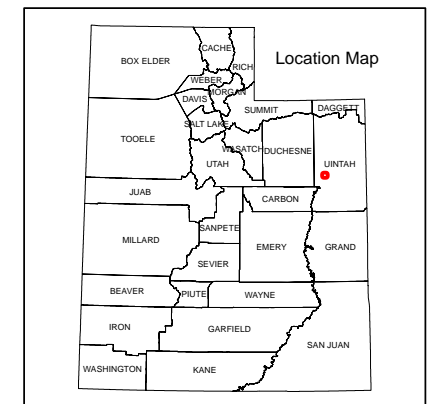
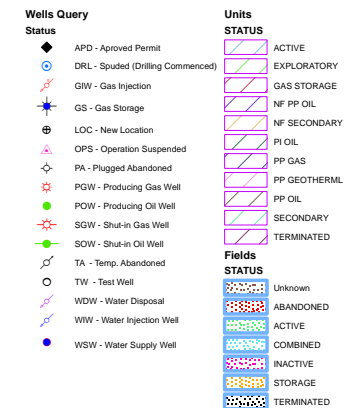
SURVEYED BY:	C.D.S.	DATE SURVEYED:	05-21-14
DRAWN BY:	L.C.S.	DATE DRAWN:	06-16-14
SCALE:	1" = 50'	REVISED:	L.C.S. 09-03-14

Tri State
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

Map Prepared: 11/20/2014
Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/3/2014

API NO. ASSIGNED: 43047548950000

WELL NAME: Moon Bottom 9-7

OPERATOR: ROBERT L BAYLESS PRODUCER, LLC (N7950)

PHONE NUMBER: 303 942-0506

CONTACT: Kimberly Rodell

PROPOSED LOCATION: NWSE 09 100S 190E

Permit Tech Review: ☒

SURFACE: 1696 FNL 1471 FEL

Engineering Review: ☐

BOTTOM: 1313 FNL 2020 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.96396

LONGITUDE: -109.78380

UTM SURF EASTINGS: 603870.00

NORTHINGS: 4424465.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU003505

PROPOSED PRODUCING FORMATION(S): GREEN RIVER - LOWER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

LOCATION AND SITING:

☒ PLAT☐ R649-2-3.☒ Bond: FEDERAL - NM0883

Unit:

☐ Potash☐ R649-3-2. General☐ Oil Shale 190-5☐ R649-3-3. Exception☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Drilling Unit☒ Water Permit: City of Roosevelt

Board Cause No: Cause 259-05

☐ RDCC Review:

Effective Date: 11/4/2014

☐ Fee Surface Agreement

Siting: 330' Fr Drl U Bdry & 660' Fr Other wells

☐ Intent to Commingle☒ R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: November 25, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Moon Bottom 9-7
API Well Number: 43047548950000
Lease Number: UTU003505
Surface Owner: FEDERAL
Approval Date: 11/25/2014

Issued to:

ROBERT L BAYLESS PRODUCER, LLC, P.O. Box 168, Farmington, NM 87499

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 259-05. The expected producing formation or pool is the GREEN RIVER - LOWER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 28, 2016

Robert L Bayless Producer, LLC
P.O. Box 168
Farmington, NM 87499

Re: APD Rescinded – Moon Bottom 9-7, Sec. 9, T. 10S, R. 19E,
Uintah County, Utah API No. 43-047-54895

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on November 25, 2014. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 28, 2016.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

